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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,176	03/24/2004	Egbert Mundt	I-2003.002 US	6825
31846 INTERVET IN	7590 09/21/200 C	7	EXAMINER	
PATENT DEPARTMENT PO BOX 318 MILLSBORO, DE 19966-0318			MOSHER, MARY	
			ART UNIT	PAPER NUMBER
•			1648	
			MAIL DATE	DELIVERY MODE
			09/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/809,176	MUNDT ET AL.		
•	Office Action Summary	Examiner	Art Unit		
		Mary E. Mosher, Ph.D.	1648		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poeriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)□	<i>'</i> —	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims	·			
5) □ 6) ⊠ 7) ⊠ 8) □ Applicati	Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1,2 and 7-10 is/are rejected. Claim(s) 3-6 is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the or	vn from consideration. r election requirement. r. epted or b) □ objected to by the			
11) 🔲	Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) 🔲 Notice 3) 🔲 Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) 'No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

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DETAILED ACTION

The examiner of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 1648, examiner Mosher.

Response to Amendment

In response to applicant's arguments and amendments, and in response to the deposit statement made on page 8 of the response filed July 19, 2007, the rejections of record are withdrawn.

Specification

The disclosure is objected to because of the following informalities: the specification contains sequence recitations that are not accompanied by the mandatory SEQ ID identifiers, see for example page 4 line 9, page 14 lines 5-8, 12, 15, 17-19, 21, 22, and page 25 lines 4-40 (referring to the specification pages as originally filed).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claims 9-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 9-10 now lack antecedent for "the vaccine".

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Vakharia et al, US 6017759. In Table 5, IBDV strain InterVet Prime Vac is shown as binding with monoclonal antibodies 63, 69, and 67, thereby meeting the requirements of claims 1 and 2. This is listed under the heading of "Vaccine Virus", thereby meeting the requirements of claim 7.

Claim Rejections - 35 USC § 103

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being obvious over Vakharia et al, US 6017759. These claims differ from Vakharia in that they require a live immunogen, a combination of poultry immunogens, and an adjuvant, respectively, and Vakharia merely discloses a vaccine strain. However, in the IBDV art, these are all well known vaccine variations, and constitute obvious variants. The invention as a whole is therefore prima facie obvious, absent unexpected results.

Allowable Subject Matter

Claims 3-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art contains information regarding the differences in primary structure between classical and E variant IBDV VP2, see for example Figure 3 of Vakharia. The prior art also contains suggestions to make chimeric VP2 protein by substituting strain-specific amino acids, see for example claim 1 of Vakharia. The prior art further contains

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knowledge of how to perform site-directed mutagenesis of VP2 and recover infectious virus, see for example Boot et al (Journal of Virological Methods 97:67-76, 2001) and Mundt (Journal of General Virology 80:2067-2076, 1999) and Lim et al (Journal of Virology 2854-2962, 1999). However, the prior art does not appear to teach or suggest the specific combinations of amino acids at two separate locations, which applicants have shown to be required to construct the moab 67 conformational epitope found in E variant IBDV.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary E. Mosher, Ph.D. whose telephone number is 571-272-0906. The examiner can normally be reached on varying dates and times; please leave a message.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mary E Mosher, Ph.D.

Primary Examiner

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9/17/07